

IV. ESTIMATED COSTS

The estimated costs, based on 2012 prices, are as follows:

	Alternative 2	Alternative 3 Preferred
Structure	\$ 756,000	\$ 756,000
Roadway Approaches	\$ 1,418,000	\$ 484,000
Structure Removal	\$ 85,000	\$ 85,000
Misc. & Mob.	\$ 341,000	\$ 235,000
Eng. & Contingencies	\$ 400,000	\$ 240,000
Total Construction Cost	\$ 3,000,000	\$ 1,800,000
Right-of-way Costs	\$ 360,000	\$ 380,000
Right-of-way Utility Costs	\$ 631,000	\$ 110,000
Total Project Cost	\$ 3,991,000	\$ 2,290,000

V. NATURAL ENVIRONMENT

Physical Characteristics

Water Resources

Water resources in the study area are part of the Yadkin river basin [United States Geological Survey (USGS) Hydrologic Unit Code 03040103]. Two streams were identified in the study area (Table 1). The physical characteristics of these streams are provided in Table 2.

Table 1. Water resources in the project study area.

Stream Name	Map ID	DWQ Index Number	Best Usage Classification
Muddy Creek	Muddy Creek	12-94-(0.5)	C
UT to Muddy Creek	SA	12-94-(0.5)	C

Table 2. Physical characteristics of water resources in the project study area.

Map ID	Bank Height (ft)	Bankful Width (ft)	Water Depth (ft)	Channel Substrate	Flow	Clarity
Muddy Creek	10-15	30-40	1-3	Sand, silt, boulders	Moderate	High
SA	1-2	1	0	Sand, silt	None	N/A

There are no designated Primary Nursery Areas or anadromous fish waters present in the project study area. Neither Water Supplies (WS-I: undeveloped watersheds or WS-II: